

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	681	438/623.ccls. and @ad< "20030815"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:32
L2	1629	438/780.ccls. and @ad< "20030815"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:32
L3	352	438/798.ccls. and @ad< "20030815"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:32
L4	1644	257/E23.167.ccls. and @ad< "20030815"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:32
L5	3998	L1 or L2 or L3 or L4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:32
L6	1	L5 and @pd> "20091207"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:33

L7	1148	(Kawamura-Kohei.in. or Kobayashi-Yasuo.in. or Nishizawa-Kenichi.in. or Terai-Yasuhiro.in. or Asano-Akira.in.) or (Kawamura-Kohei-\$9.in. or Kobayashi-Yasuo-\$9.in. or Nishizawa-Kenichi-\$9.in. or Terai-Yasuhiro-\$9.in. or Asano-Akira-\$9.in.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:33
L8	0	L7 and ((F-doped adj carbon) and radicals and (Ar or argon) and (nitrogen or "N.sub.2")).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:34
L9	0	L7 and (radicals and (Ar or argon) and (nitrogen or "N.sub.2")).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:34
L10	17	(tokyo and electron).as. and (radicals and (Ar or argon) and (nitrogen or "N.sub.2")).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:35
L11	0	(tokyo and electron).as. and (radicals and (Ar or argon) and (nitrogen or "N.sub.2") and carbon and F-dop\$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:35
L12	2	(tokyo and electron).as. and (radicals and (Ar or argon) and (nitrogen or "N.sub.2") and carbon and ratio).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:35
L20	0	((carbon near3 F-dop\$3) and radicals and (Ar or argon) and (nitrogen or "N.sub.2")).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:37
L21	24	((carbon near3 ("F.sub.2" or fluorine)) and radicals and (Ar or argon) and (nitrogen or "N.sub.2")).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/24 08:37

S80	52	(US-20060223306-\$ or US-20070077737-\$ or US-20030025209-\$ or US-20030168008-\$ or US-20030192568-\$ or US-20020135636-\$ or US-20040016508-\$ or US-20030013313-\$ or US-20020088707-\$ or US-20020037684-\$ or US-20040161946-\$ or US-20040157466-\$ or US-20030203655-\$ or US-20030003771-\$ or US-20020046808-\$ or US-20040157457-\$ or US-20040203223-\$ or US-20010042513-\$ or US-20030052086-\$ or US-20040229475-\$ or US-20040092095-\$ or US-20030220708-\$ or US-20030123216-\$ or US-20030084587-\$ or US-20040121585-\$ or US-20040087169-\$).did. or (US-20030116854-\$).did. or (US-7329609-\$ or US-6686293-\$ or US-6033990-\$ or US-5876838-\$ or US-5097177-\$ or US-4696686-\$ or US-6518169-\$ or US-6157083-\$ or US-6770575-\$ or US-6755932-\$ or US-6620739-\$ or US-6558756-\$ or US-6180531-\$ or US-6127004-\$ or US-5989998-\$ or US-5866920-\$ or US-6042687-\$ or US-6013155-\$ or US-5587038-\$ or US-4691662-\$ or US-6107192-\$ or US-6793833-\$ or US-6686296-\$ or US-6764939-\$).did. or (WO-2005017990-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2010/08/10 13:50
S81	24	S80 and ((CF.u/c. or FC.u/c. or "F.sub."? "C.sub."? or "C.sub."? "F.sub."? or fluorocarbon or ((fluorine or fluorinat\$3) near3 carbon)) near5 (film or layer)) and @ad< "20030815"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 13:51

S82	0	S81 and (((argon or Ar) near8 radical) or "Ar*") and (((nitrogen or "N.sub.2" or N) near8 radical) or "N*")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 13:52
S83	23	S81 and radical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 13:52
S84	2	S81 and ((argon or nitrogen or "N.sub.2" or Ar or N) near8 radical)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 13:52
S85	7	((CF.u/c. or FC.u/c. or "F.sub."?"C.sub."?" or "C.sub."?"F.sub."?" or fluorocarbon or ((fluorine or fluorinat\$3) near3 carbon)) near5 (film or layer)) and (((argon or Ar) near8 radical) or "Ar*") and (((nitrogen or "N.sub.2" or N) near8 radical) or "N*") and @ad<"20030815"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 13:53
S86	18	((CF.u/c. or FC.u/c. or "F.sub."?"C.sub."?" or "C.sub."?"F.sub."?" or fluorocarbon or ((fluorine or fluorinat\$3) near3 carbon)) near5 (film or layer)) and (radical near8 ((chemical or molecular) near3 (formula or composition or structure))) and @ad<"20030815"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 13:56
S87	897	((argon or Ar) with radical with plasma)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 14:14

S88	324	((argon or Ar) with radical with plasma with (nitrogen or "N.sub.2"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 14:14
S89	48	((((argon or Ar) near3 radical) with plasma with ((nitrogen or "N.sub.2") near3 radical))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 14:15
S90	0	radical near3 plasma near3 excitation near3 energy	US-PGPUB; USPAT; DERWENT	OR	ON	2010/08/10 14:22
S91	16	radical near6 plasma near6 excitation near6 energy	US-PGPUB; USPAT; DERWENT	OR	ON	2010/08/10 14:22
S92	56	(US-20060223306-\$ or US-20070077737-\$ or US-20030025209-\$ or US-20030168008-\$ or US-20030192568-\$ or US-20020135636-\$ or US-20040016508-\$ or US-20030013313-\$ or US-20020088707-\$ or US-20020037684-\$ or US-20040161946-\$ or US-20040157466-\$ or US-20030203655-\$ or US-20030003771-\$ or US-20020046808-\$ or US-20040157457-\$ or US-20040203223-\$ or US-20010042513-\$ or US-20030052086-\$ or US-20040229475-\$ or US-20040092095-\$ or US-20030220708-\$ or US-20030123216-\$ or US-20030084587-\$ or US-20040121585-\$ or US-20040087169-\$).did. or (US-20030116854-\$ or US-20080203477-\$ or US-20080128702-\$ or US-20060174833-\$).did. or (US-7329609-\$ or US-6686293-\$ or US-6033990-\$ or US-5876838-\$ or US-5097177-\$ or US-4696686-\$ or US-6518169-\$ or US-6157083-\$ or US-6770575-	US-PGPUB; USPAT; DERWENT	OR	ON	2010/08/10 15:05

		\$ or US-6755932-\$ or US-6620739-\$ or US-6558756-\$ or US-6180531-\$ or US-6127004-\$ or US-5989998-\$ or US-5866920-\$ or US-6042687-\$ or US-6013155-\$ or US-5587038-\$ or US-4691662-\$ or US-6107192-\$ or US-6793833-\$ or US-6686296-\$ or US-6764939-\$ or US-5266364-\$).did. or (WO-2005017990-\$). did.				
S93	9	S92 and ((radical near8 (nitrogen or "N.sub.2")) or "N")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 15:06
S94	2	S93 and ((CF.u/c. or FC.u/c. or "F.sub."?"C.sub."?" or "C.sub."?"F.sub."?" or fluorocarbon or ((fluorine or fluorinat\$3) near3 carbon)) near5 (film or layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 15:09
S95	122	((CF.u/c. or FC.u/c. or "F.sub."?"C.sub."?" or "C.sub."?"F.sub."?" or fluorocarbon or ((fluorine or fluorinat\$3) near3 carbon)) near5 (film or layer)) and ((radical near8 (nitrogen or "N.sub.2")) or "N") and @ad<"20040723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 15:10
S96	6	((CF.u/c. or FC.u/c. or "F.sub."?"C.sub."?" or "C.sub."?"F.sub."?" or fluorocarbon or ((fluorine or fluorinat\$3) near3 carbon)) near5 (film or layer)) and (((radical near8 (nitrogen or "N.sub.2")) or "N") near8 (composition or formula or structure)) and @ad<"20040723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 15:10

S97	6	((((CF.u/c. or FC.u/c. or "F.sub."?"C.sub."?" or "C.sub."?"F.sub."?" or fluorocarbon or ((fluorine or fluorinat\$3) near3 carbon)) near5 (film or layer)) with ((radical near8 (nitrogen or "N.sub.2")) or "N" )) and @ad<"20040723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 15:11
S98	15	((((CF.u/c. or FC.u/c. or "F.sub."?"C.sub."?" or "C.sub."?"F.sub."?" or fluorocarbon or ((fluorine or fluorinat\$3) near3 carbon)) near5 (film or layer)) same ((radical near8 (nitrogen or "N.sub.2")) or "N" )) and @ad<"20040723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 15:12
S99	9	S98 not S97	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/10 15:12
S100	2	US-20040161946-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 07:59
S101	9	((CF.u/c. or FC.u/c. or "F.sub."?"C.sub."?" or "C.sub."?"F.sub."?" or fluorocarbon or fluoro-carbon or ((fluorine or fluorinat\$3) near3 carbon)) near5 (film or layer)) and ((radical near8 (nitrogen or "N.sub.2")) or "N" )) and ((radical near8 (argon or "Ar")) or "Ar" )) and @ad<"20040723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 08:04

S102	9	((CF.u/c. or FC.u/c. or "F.sub."? "C.sub."? or "C.sub."? "F.sub."? or fluorocarbon or fluoro-carbon or ((fluorine or fluorinat\$3) near3 carbon) or (F-dop\$3 near3 carbon)) near5 (film or layer)) and ((radical near8 (nitrogen or "N.sub.2")) or "N" ") and ((radical near8 (argon or "Ar")) or "Ar*") and @ad< "20040723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 08:21
S107	210	(CF.u/c. or FC.u/c. or "F.sub."? "C.sub."? or "C.sub."? "F.sub."? or fluorocarbon or fluoro-carbon or ((fluorine or fluorinat\$3) near3 carbon) or (F-dop\$3 near3 carbon)) and ((radical near8 (nitrogen or "N.sub.2")) or "N" ") and ((radical near8 (argon or "Ar")) or "Ar*") and @ad< "20040723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 08:24
S108	13	(CF.u/c. or FC.u/c. or "F.sub."? "C.sub."? or "C.sub."? "F.sub."? or fluorocarbon or fluoro-carbon or ((fluorine or fluorinat\$3) near3 carbon) or (F-dop\$3 near3 carbon)) and ((nitrogen or "N.sub.2") near8 (argon or "Ar") near8 plasma near8 (composition or formula or structure)) and @ad< "20040723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 08:35

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp



L13	159	(Kawamura-Kohei.in. or Kobayashi-Yasuo.in. or Nishizawa-Kenichi.in. or Terai-Yasuhiro.in. or Asano-Akira.in.) or (Kawamura-Kohei-\$9.in. or Kobayashi-Yasuo-\$9.in. or Nishizawa-Kenichi-\$9.in. or Terai-Yasuhiro-\$9.in. or Asano-Akira-\$9.in.)	US-PGPUB; USPAT; UPAD	OR	ON	2010/08/24 08:36
L14	0	L13 and ((F-doped adj carbon) and radicals and (Ar or argon) and (nitrogen or "N.sub.2"))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/08/24 08:36
L15	0	L13 and (radicals and (Ar or argon) and (nitrogen or "N.sub.2"))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/08/24 08:36
L16	4	L13 and (radicals and (Ar or argon or nitrogen or "N.sub.2"))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/08/24 08:36
L17	17	(tokyo and electron). as. and (radicals and (Ar or argon) and (nitrogen or "N.sub.2"))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/08/24 08:37
L18	2	(tokyo and electron). as. and (radicals and (Ar or argon) and (nitrogen or "N.sub.2") and carbon and ratio).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/08/24 08:37
L19	0	((carbon near3 F-dop \$3) and radicals and (Ar or argon) and (nitrogen or "N.sub.2"))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/08/24 08:37
L22	24	((carbon near3 ("F.sub.2" or fluorine)) and radicals and (Ar or argon) and (nitrogen or "N.sub.2"))).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/08/24 08:38

8/ 24/ 2010 9:12:14 AM

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